

CLAIMS

1. Micro-abrasion device (1) comprising:
 - a first reservoir (10) intended to contain a powder (P) to be sprayed onto a surface that is to be treated,
 - a second reservoir (11) intended to collect the used powder (U),
 - a handpiece (3) designed to be applied against the surface that is to be treated,the device being characterized in that it comprises a removable cartridge (5) that can be fitted onto the device and removed independently of the handpiece (3) and comprising the first (10) and the second (11) reservoirs.
2. Device according to the preceding claim, characterized in that the first (10) and second (11) reservoirs are connected together non-removably within the cartridge (5).
3. Device according to one of the preceding claims, characterized in that the first (10) and second (11) reservoirs form two compartments within a body (40) of the cartridge (5).
4. Device according to any one of the preceding claims, characterized in that the first (10) and the second (11) reservoirs are contiguous within the cartridge (5).
5. Device according to the preceding claim, characterized in that the first and second reservoirs have a common wall (41).
6. Device according to any one of the preceding claims, characterized in that the first reservoir (10) has a section transverse to the longitudinal axis of the reservoir which narrows downwards.

7. Device according to any one of the preceding claims, characterized in that the first reservoir (10) comprises a withdrawing tube (20) open at its upper end
5 (21).

8. Device according to Claim 7, characterized in that the withdrawing tube comprises a lateral orifice (22) allowing the powder (P) to enter the tube.

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9. Device according to Claim 7, characterized in that the withdrawing tube comprises a lower part (140) which can be separated from the cartridge and which comprises a lateral orifice (22) allowing the powder to enter the
15 tube.

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10. Device according to any one of the preceding claims, characterized in that the first reservoir (10) comprises an air intake (24) which is arranged on a side wall (43b) of the reservoir.

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11. Device according to any one of the preceding claims, characterized in that the cartridge (5) comprises a shut-off means (54) for shutting off a connection endpiece (20a) for connecting the first reservoir to a withdrawing pipe (12) for withdrawing the powder (P) contained therein.

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12. Device according to any one of the preceding claims, characterized in that it comprises a base station (2) configured to accept the cartridge (5).

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13. Device according to the preceding claim, characterized in that the base station (2) is provided with a polarizing means preventing the cartridge (5) from being inserted in anything other than a determined position.

14. Device according to any one of Claims 1 to 9,

characterized in that the handpiece (3) is designed to accept the cartridge (5).

15. Device according to any one of the preceding
5 claims, characterized in that the cartridge (5) comprises a body (40) made by moulding a plastic and a closure cap (49) attached to the body.

16. Device according to Claim 1, characterized in that
10 the cartridge (5) comprises a coupling sleeve for connecting the withdrawing tube to the base station, this sleeve being able to slide, being capable of moving between a first position in which it closes off an opening in the cartridge, so as to prevent the
15 powder from flowing out, and a second position in which it collaborates with the base station.

17. Device according to Claim 1, characterized in that
20 the cartridge (5) comprises a coupling sleeve for connecting the withdrawing tube to the base station, this sleeve being fixed and engaged in an opening serving to connect the cartridge to the device.

18. Device according to Claim 16, characterized in
25 that the cartridge comprises an elastic return member for returning the sleeve (171) to the first position.

19. Device according to any one of the preceding
30 claims, characterized in that the first reservoir comprises a withdrawing tube made of two parts, namely a first part made as a single piece with one wall of the reservoir, by moulding a plastic, and a second part (171), attached to the first, comprising the orifice (22) that allows the powder to enter the tube.

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20. Device according to the preceding claim, characterized in that at least one (171) of the two parts is made with a slot (192) and collaborates with the other part (170) so as to offer a possibility of

adjusting the relative position of the two parts.

21. Device according to any one of the preceding
claims, characterized in that it comprises a sealing
5 piece (185) made of elastomer, designed to be inserted
between the cartridge and the device when the cartridge
is in place on the device, particularly a sealing piece
placed in a housing of the base station or a sealing
piece fixed to the cartridge, particularly overmoulded
10 onto the latter or deposited by dipping or spraying.

22. Device according to any one of the preceding
claims, characterized in that the sealing piece (185)
comprises at least a lip or a groove (187) intended to
15 allow sealed connection, this sealing relief pressing
in a sealed manner against an endpiece of the
cartridge.

23. Cartridge (5) that can be used in a device as
20 defined in any one of the preceding claims, comprising
a first reservoir (10) containing a powder (P) to be
sprayed onto a surface that is to be treated, and a
second reservoir (11) intended to receive the used
powder (U).

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24. Cartridge according to the preceding claim,
characterized in that the powder (P) is based on cereal
flour.